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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Col	mplete if Known
Application Number	10/670,261
Filing Date	September 26, 2003
First Named Inventor	BURNS, Dav J.
Art Unit	2614
Examiner Name	Tieti 14326-2002/TAC
Attorney Docket Number	14326-2002/TAC

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BILT		US- 5796953	08/18/1998	ZEY	
BICI		^{US-} 6473798	10/29/2002	GROSSER et al.	
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		FORE	IGN PATENT DOCU	MENTS		
Examiner Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Peges, Columns, Lines, Where Relevant Passages		
		Country Code ³ "Number ⁴ "Kind Code ³ (# known)	MM-DD-YYYY		Or Relevant Figures Appear	T°
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Examiner Signature	Pin	4.400	 ate considered	DEC. 02, 2007.

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Translation is adjacted. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 14407 70	Application Number	10/670,261
INFORMATION DISCLOSUR	Filing Date	September 26, 2003
STATEMENT BY APPLICANT	First Named Inventor	BURNS, Dave J.
	Art Unit	2614
(Use as many sheets as necessary)	Examiner Name	TIEU
Sheet 2 of 2	Attorney Docket Number	14326-2002/TAC

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
8KT		Documentation from http://www.ando.co.jp being the website for Ando Electric Co., Ltd.: (i) home page; (ii) Products Info; (iii) Measuring Instruments; and (iv) xDSL loop Tester, LX100	
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Cor	mplete if Known
Application Number	10/670,261
Filing Date	September 26, 2003
First Named Inventor	BURNS, David J.
Art Unit	2655 2614
Examiner Name	YOUNG, Wayne R. ZIGUL
Attomey Docket Number	14326-2002

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BUT	1	US- 2003/083842 A1	05-01-2003	Miller et al.	
BUT	2	^{US-} 6,278,769 B1	08-21-2001	Bella	
BUT.	3	US- 6,212,258 B1	04-03-2001	Bella et al.	
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Examiner	Cite	FORE Foreign Patent Document	IGN PATENT DOCU	MENTS Name of Patentee or	Pages, Columns, Lines,	г
Initials*	No.1	Country Code ³ Number ⁴ Kind Code ⁶ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages Or Relevant Figures Appear	۲
BICT.	4	CA 2,448,909 A1	12-12-2002	Toligrade Communications, Inc.		E
BUT	5	CA 2,338,682 A1	12-07-2000	Teradyne, Inc.		E
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Coi	mplete if Known
Application Number	10/670,261
Filing Date	September 26, 2003
First Named Inventor	David J. BURNS
Art Unit	2655
Examiner Name	Wayne R. YOUNG
Attorney Docket Number	86503-64

Examiner	Cito	Dearmont Number		DOCUMENTS	
Initials*	Cite No.	Document Number Number-Kind Code ² (# incomp)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BICT.	1.	^{US-} 6,031,528	02-29-2000	Langfahl, Jr.	
BILT.	2.	^{US-} 6,510,463 B1	01-21-2003	Farhat et al.	
BILL	3.	US- 6,580,727 B1	06-17-2003	Yim et al.	
BKT	4.	^{US-} 2003/0204611 A1	10-30-2003	McCosh et al.	
BUT.	5.	^{US-} 2005/0025189 A1	02-03-2005	Smith	
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	Cite No.1	Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Γ
			MM-DD-YYYY			76
BIT	6.	JP 2000332755 A (Abstract	11-30-2000	NEC CORP et al.		
BICT	7.	WO 02/056541 A3	07-18-2002	TEKELEC		
BICI	8.	CA 2 359 991 A1	03-11-2003	NETIO CORPORATION		
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Examiner Considered 02

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Translation is attached.

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Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/670,261			
Filing Date	September 26, 2003			
First Named Inventor	David J. BURNS			
Art Unit	2858 ZGIL			
Examiner Name	Wayne R. YOUNG TIGEL			
Attorney Docket Number	86503-64			

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
tnitials* No.	Cite No.1	Number-Kind Code ^{2 (# known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevan Figures Appear
BILL	1.	^{US-} 6,414,958 B1	07-02-2002	Specht	
SKI	2.	^{US-} 2003/0188003 A1	10-02-2003	Sylvest et al.	
BICT	3.	US- 2004/0010627 A1	01-15-2004	Ellis et al.	
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	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (# known)			Or Relevant Figures Appear	T
BILF	4.	WO 02/14977 A2	02-21-2002	VERIZON	<u> </u>	E
PILL	5.	WO 02/17571 A1	02-28-2002	TIARA NETWORKS, INC.		F
BLI	6.	WO 2004/066601 A1	08-05-2004	TELEFONAKTIEBOLAGET		F
BILL	7.	WO 2005/032047 A1	04-07-2005	BCE INC.		F
BUT	8.	PCT/CA2005/001931 (ISR)	04-13-2006	BCE INC.		F
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Signature Considered 02,200

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